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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/535,842	03/28/2000	David W. Miller	99-082-TAP	5069

7590

09/30/2002

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EXAMINER

RAO, SHEELA S

ART UNIT

PAPER NUMBER

2125

DATE MAILED: 09/30/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/535,842

Applicant(s)

MILLER ET AL.

Examiner

Sheela Rao

Art Unit

2125

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 3/28/00 & 7/20/01.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 March 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2 & 3. 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-21 are presented for examination.
2. Applicant's submission of references on forms PTO-1449, filed March 28, 2002 and July 20, 2001, have been considered. A signed copy of each form is attached.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyoshi, et al. (USPN 5,646,917) in view of Schantz (USPN 5,589,859).

Miyoshi, et al. discloses a device for stocking a plurality of CDs where in a horizontal carrier or robotic element is used to be moved along guide rails of the frame of the stocking device or library. The library system of the patented invention comprises a plurality of openings for storing discs, also a guide rail is provided so that the carrier can slide to carry the discs to their respective slots. See figure 1. Miyoshi also teaches the use of a plurality of coils positioned equidistantly within the proximity of the rails. With regard to claims 1-4, see column 3: lines 29-52.

The prior art further teaches the use of magnetic forces to move the carrier or robotic element between the guide rails, as per the limitations of instant claims 10-15. See column 3: line 64 to column 4: line 34.

As per the last paragraph of instant claim 1 and the limitations set forth by instant claims 5-9 and 16-21, Miyoshi, et al. does not teach the use of inductive coupling or alternating current for the recharging of the battery on the at least one robot. To this regard, the reference of prior art to Schantz discloses the use of a stationary primary coil that is used for inductive coupling to a recharge coil that is mounted for recharge of the battery on the robot. Schantz teaches that the use of an onboard battery may include a proximity coil for inductive coupling with a stationary coil; wherein, the proximity coil can be connected to the battery in order to recharge the battery when the mobile element is in a rest position following an operation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the inductively coupled power system within the mobile element of Schantz with the carrier stocker system of Miyoshi, et al. so as to reduce the numerous electrical connections and wiring required in such systems. See Schantz, column 3: lines 16, et seq.

For the reasons stated above, the limitations of the claimed invention are taught by the prior arts of record; thereby, rendering the instant claims unpatentable.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following cited references relate to the use of recharging means in mobile devices.

Ross	USPN 6,421,600 B1
Avida	USPN 6,116,707

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheela Rao whose telephone number is (703) 305-9766. The examiner can normally be reached Tuesday - Thursday from 9:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard, can be reached on (703) 308-0538.

Any response to this action should be mailed to:

**Commissioner of Patents and Trademarks
Washington, D.C. 20231**

or faxed to:

(703) 746-7238 for After-Final Communications

(703) 746-7239 for Official Communications

**(703) 746-7240 for Status Inquiries of Draft
Communications**

**Hand-delivered responses should be brought to Crystal Park II, 2121
Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).**

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.



Sheela S. Rao
September 25, 2002



MARIA N. VON BUHR
PRIMARY EXAMINER